

## Results for the 12'x80' circular tank with ramp:

### Circular tank:

Tank Diameter = 80 ft

Tank Wall thickness = 10 in (actual)

Tank Height = 12 ft

$f_y = 60,000$  psi

$f'_c = 4,000$  psi

Horizontal Steel = #4 rebar		
Bar #	Spacing (in)	Distance from finished floor (ft - in)
1	3	0' 3"
2	10	1' 1"
3	10	1' 11"
4	8	2' 7"
5	8	3' 3"
6	8	3' 11"
7	8	4' 7"
8	6	5' 1"
9	6	5' 7"
10	6	6' 1"
11	6	6' 7"
12	6	7' 1"
13	8	7' 9"
14	8	8' 5"
15	10	9' 3"
16	10	10' 1"
17	10	10' 11"
18	10	11' 9"

Vertical Steel shall be #4 @ 9" O.C.

Dowels "L" bars shall be #4 @ 9" O.C. with a horizontal leg of 8" and a vertical leg of 26"


For a length of 60 feet, centered on the ramp, substitute #5 rebar for the #4 horizontal rebar for bars #5 to bar #10 in the tank (6 bars total).

In the tank wall, at the notch for the ramp add:

4-#6 bars x 11'-10" long @ 4" O.C. vertically.

4-#6 bars x 20' long @ 4" O.C. horizontally.

4-#6 bars x 6' long @ 4" O.C. at a 45 degree angle.

 Natural Resources Conservation Services United States Department of Agriculture	____ County, PA <b>ROUND TANK W/RAMP</b> <b>DETAIL Page 6.21</b>	Designed <u>PA NRCS</u> <u>12/01</u> Drawn <u>Hartz</u> <u>2/1/08</u> Revisions <u>Pereverzoff</u> <u>1/9/08</u>
		Checked _____ Approved _____